

FORM PTO-1449	Atty. Docket No.: C382.12-0097	Serial No.:
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	Applicant:	
	Kevin I. Bertness	
	Filing Date	Group Art:
	HEREWITH	

U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
AKA	AA 2,514,745	7/11/50	Dalzell	171	95	
	AB 3,593,099	7/13/71	Scholl	320	13	
	AC 3,607,673	9/21/71	Seyl	204	1	
	AD 3,676,770	7/11/72	Sharaf et al.	324	29.5	
	AE 3,729,989	5/1/73	Little	73	133	
	AF 3,753,094	8/14/73	Furuishi et al.	324	29.5	
	AG 3,808,522	4/30/74	Sharaf	324	29.5	
	AH 3,811,089	5/14/74	Strezelewicz	324	170	
	AI 3,873,911	3/25/75	Champlin	324	29.5	
	AJ 3,886,443	5/27/75	Miyakawa et al.	324	29.5	
	AK 3,889,248	6/10/75	Ritter	340	249	
AKA	AL 3,906,329	9/16/75	Bader	320	44	

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
AKA	AM 59-17892	1/30/84	Japan	S	S	Abstract Only
AKA	AN 59-17893	1/30/84	Japan	S	S	Abstract Only
AKA	AO 59-17894	1/30/84	Japan	S	S	Abstract Only

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AKA	AP	"Electrochemical Impedance Spectroscopy in Battery Development and Testing", <u>Batteries International</u> , April 1997, pgs. 59 and 62-63.
	AQ	"Battery Impedance", by E. Willihnganz et al., <u>Electrical Engineering</u> , September 1959, pgs. 922-925.
	AR	"Determining The End of Battery Life", by S. DeBardelaben, <u>IEEE</u> , 1986, pgs. 365-368.
AKA	AS	"A Look at the Impedance of a Cell", by S. DeBardelaben, <u>IEEE</u> , 1988, pgs. 394-397.

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Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
<i>[Signature]</i>	AT 3,909,708	9/30/75	Champlin	324	29.5	
<i>[Signature]</i>	AU 3,936,744	2/3/76	Perlmutter	324	158	
<i>[Signature]</i>	AV 3,946,299	3/23/76	Christianson et al.	320	43	
<i>[Signature]</i>	AW 3,947,757	3/30/76	Grube et al.	324	28	
<i>[Signature]</i>	AX 3,969,667	7/13/76	McWilliams	324	29.5	
<i>[Signature]</i>	AY 3,979,664	9/7/76	Harris	324	17	
<i>[Signature]</i>	AZ 3,984,762	10/5/76	Dowgiallo, Jr.	324	29.5	
<i>[Signature]</i>	BA 3,984,768	10/5/76	Staples	324	62	
<i>[Signature]</i>	BB 4,008,619	2/22/77	Alcaide et al.	73	198	
<i>[Signature]</i>	BC 4,053,824	10/11/77	Dupuis et al.	324	29.5	
<i>[Signature]</i>	BD 4,070,624	1/24/78	Taylor	327	158	
<i>[Signature]</i>	BE 4,086,531	4/25/78	Bernier	324	158	

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
<i>[Signature]</i>	BF 60225078	11/9/85	Japan			Abstract Only
<i>[Signature]</i>	BG 04372536	12/25/92	Japan			Abstract Only
<i>[Signature]</i>	BH 04131779	5/6/92	Japan			Abstract Only

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>[Signature]</i>	BI	"The Impedance of Electrical Storage Cells", by N.A. Hampson et al., <u>Journal of Applied Electrochemistry</u> , 1980, pgs. 3-11.
<i>[Signature]</i>	BJ	"A Package for Impedance/Admittance Data Analysis", by B. Boukamp, <u>Solid State Ionics</u> , 1986, pgs. 136-140.
<i>[Signature]</i>	BK	"Precision of Impedance Spectroscopy Estimates of Bulk, Reaction Rate, and Diffusion Parameters", by J. Macdonald et al., <u>J. Electroanal. Chem.</u> , 1991, pgs. 7-11.

EXAMINER: *[Signature]* DATE CONSIDERED: 5-21-04

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U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
<i>KA</i>	BL 4,112,351	9/5/78	Back et al.	324	16	
	BM 4,114,083	9/12/78	Benham et al.	320	39	
	BN 4,126,874	11/21/78	Suzuki et al.	354	60	
	BO 4,178,546	12/11/79	Hulls et al.	324	158	
	BP 4,193,025	3/11/80	Frailing et al.	324	427	
	BQ 4,207,611	6/10/80	Gordon	354	580	
	BR 4,315,204	2/9/82	Sievers et al.	322	28	
	BS 4,316,185	2/16/82	Watrous et al.	340	636	
	BT 4,322,685	3/30/82	Frailing et al.	324	429	
	BU 4,363,407	12/14/82	Barkler et al.	209	3.3	
	BV 4,369,407	1/18/83	Korbell	324	416	
<i>KA</i>	BW 4,412,169	10/25/83	Dell'Orto	320	64	

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Sub Class	Translation Yes No
<i>KA</i>	BX	03282276	12/12/91	Japan	31	51	Abstract Only
<i>KA</i>	BY	03274479	12/5/91	Japan	31	51	Abstract Only
<i>KA</i>	BZ	5216550	8/27/93	Japan	31	51	Abstract Only
<i>KA</i>	CA	59017894	1/30/84	Japan	31	51	Abstract Only

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>KA</i>	CB	"Internal Resistance: Harbinger of Capacity Loss in Starved Electrolyte Sealed Lead Acid Batteries, by Vaccaro, F.J. et al., AT&T Bell Laboratories, 1987 IEEE, Ch. 2477, pp. 128/131.
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Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate	
AKH	CC	4,390,828	6/28/83	Converse et al.	320	32	
	CD	4,392,101	7/5/83	Saar et al.	320	20	
	CE	4,396,880	8/2/83	Windebänk	320	21	
	CF	4,408,157	10/4/83	Beaubien	324	62	
	CG	4,423,378	12/27/83	Marino et al.	324	427	
	CH	4,423,379	12/27/83	Jacobs et al.	324	429	
	CI	4,424,491	1/3/84	Bobbett et al.	324	433	
	CJ	4,459,548	7/10/84	Lentz et al.	324	158	
	CK	4,514,694	4/30/85	Finger	324	429	
	CL	4,520,353	5/28/85	McAuliffe	340	616	
	CM	4,667,279	5/19/87	Maier	363	48	
	CN	4,678,998	7/7/87	Muramatsu	324	427	
	CO	4,679,000	7/7/87	Clark	324	428	
AKH	CP	4,697,134	9/29/87	Burkum et al.	320	48	

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
<i>AKH</i>	CQ	EP 0 772 056 A1	5/7/97	EPO		X
<i>AKH</i>	CR	BO 0 637 754 A1	2/8/95	EPO		X
<i>AKH</i>	CS	2 088 159 A	6/3/82	Great Britain		X

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>AKH</i>	CT	IEEE Recommended Practice For Maintenance, Testings, and Replacement of Large Lead Storage Batteries for Generating Stations and Substations, The Institute of Electrical and Electronics Engineers, Inc., ANSI/IEEE Std. 450-1987, 3/9/1987, pp. 7-15.
<i>AKH</i>	CU	"Field and Laboratory Studies to Assess the State of Health of Valve-Regulated Lead Acid Batteries: Part I Conductance/Capacity Correlation Studies", by D. Feder et al., IEEE, August 1992, pgs. 218-233.

EXAMINER: *AKH*

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Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
CV	4,707,795	11/17/87	Alber et al.	264	580	
CW	4,709,202	11/24/87	Koenck et al.	320	43	
CX	4,710,861	12/1/87	Kanner	368	46	
CY	4,719,428	1/12/88	Liebermann	324	436	
CZ	4,743,855	5/10/88	Randin et al.	324	480	
DA	4,816,768	3/28/89	Champlin	324	428	
DB	4,820,966	4/11/89	Fridman	320	32	
DC	4,825,170	4/25/89	Champlin	324	436	
DD	4,849,700	7/18/89	Morioka et al.	324	427	
DE	4,881,038	11/14/89	Champlin	324	428	
DF	4,912,416	3/27/90	Champlin	324	430	
DG	4,929,931	5/29/90	McCuen	340	636	
DH	4,931,738	6/5/90	MacIntyre et al.	324	435	
DI	4,947,124	8/7/90	Hauser	324	430	
DJ	4,956,597	9/11/90	Heavey et al.	320	14	
DK	4,968,941	11/6/90	Rogers	324	428	

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
DL	WO 93/22666	11/11/93	WIPO			X
DM	WO 98/58270	12/23/98	WIPO			X

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

DN	"Battery Impedance", by E. Willihnganz et al., <u>Electrical Engineering</u> , September 1959, pgs. 922-925.
DO	"JIS Japanese Industrial Standard-Lead Acid Batteries for Automobiles", <u>Japanese Standards Association JIS</u> , 621.355.2:629.113.006, Nov. 1995.

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Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
<i>AM</i>	DP	5,004,979	4/2/91	Marino et al.	324	230
	DQ	5,032,825	7/16/91	Xuznicki	340	638
	DR	5,047,722	9/10/91	Wurst et al.	324	430
	DS	5,087,881	2/11/92	Peacock	324	378
	DT	5,126,675	6/30/92	Yang	324	435
	DU	5,140,269	8/18/92	Champlin	324	433
	DV	5,144,248	9/1/92	Alexandres et al.	324	428
	DW	5,170,124	12/8/92	Blair et al.	324	434
	DX	5,204,611	4/20/93	Nor et al.	320	21
	DY	5,214,370	5/25/93	Harm et al.	320	35
	DZ	5,214,385	5/25/93	Gabriel et al.	324	434
	EA	5,241,275	8/31/93	Fang	324	430
	EB	5,254,952	10/19/93	Salley et al.	324	429
	EC	5,281,919	1/25/94	Palanisamy	324	427
	ED	5,281,920	1/25/94	Wurst	324	430
	EE	5,295,078	3/15/94	Stich et al.	364	483
	EF	5,298,797	3/29/94	Redl	307	246
	EG	5,300,874	4/5/94	Shimamoto et al.	320	15
<i>AM</i>	EH	5,302,902	4/12/94	Groehl	324	434

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
<i>AM</i>	FI					

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>AM</i>	EJ	
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EXAMINER:

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Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
<i>EL</i>	EK	5,331,268	7/19/94	Patino et al.	320	28
	EL	5,336,993	8/9/94	Thomas et al.	324	156.1
	EM	5,352,968	10/4/94	Reni et al.	320	39
	EN	5,343,380	8/30/94	Champlin	363	46
	EO	5,365,160	11/15/94	Leppo et al.	320	22
	EP	5,365,453	11/15/94	Startup et al.	384	481
	EQ	5,381,096	1/10/95	Hirzel	324	427
	ER	5,426,371	6/20/95	Salley et al.	324	429
	ES	5,432,426	7/11/95	Yoshida	320	20
	ET	5,434,495	7/18/95	Toko	320	44
	EU	5,442,274	8/15/95	Tamai	320	23
	EV	5,457,377	10/10/95	Jonsson	320	5
	EW	5,449,996	9/12/95	Matsumoto et al.	320	20
	EX	5,449,997	9/12/95	Gilmore et al.	320	39
	EY	5,485,090	1/16/96	Stephens	324	433
	EZ	5,519,383	5/21/96	De La Rosa	340	635
	FA	5,528,148	6/18/96	Rogers	324	426
	FB	5,550,485	8/27/96	Falk	324	772
<i>FC</i>	FC	5,561,380	10/1/96	Sway-Tin et al.	324	509

FOREIGN PATENT DOCUMENTS

Document No.	Date	Country	Class	Sub Class	Translation Yes No
FD					

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EXAMINER: <i>EL</i>	DATE CONSIDERED: <i>5-21-09</i>
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Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
FF	5,562,501	10/8/96	Kinoshita et al.	439	832	
FG	5,572,136	11/5/96	Champlin	324	426	
FH	5,574,355	11/12/96	McShane et al.	320	39	
FI	5,585,728	12/17/96	Champlin	324	427	
FJ	5,592,093	1/7/97	Klingbiel	324	426	
FK	5,596,260	1/21/97	Moravec et al.	320	30	
FL	5,598,098	1/28/97	Champlin	324	430	
FM	5,602,462	2/11/97	Stich et al.	323	258	
FN	5,606,242	2/25/97	Hull et al.	320	48	
FO	5,621,298	4/15/97	Harvey	320	5	
FP	5,642,031	6/24/97	Brotto	320	21	
FQ	5,650,937	7/22/97	Bounaga	364	483	
FR	5,652,501	7/29/97	McClure et al.	320	17	
FS	5,675,234	10/7/97	Greene	320	15	
FT	5,677,077	10/14/97	Faulk	429	90	
FU	5,699,050	12/16/97	Kanazawa	340	636	
FV	5,701,089	12/23/97	Perkins	327	772	
FW	5,717,336	2/10/98	Basell et al.	324	430	
FX	5,757,192	5/26/98	McShane et al.	324	427	

FOREIGN PATENT DOCUMENTS

Document No.	Date	Country	Class	Sub Class	Translation Yes No
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OTHER/ART (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER:	DATE CONSIDERED: 5-21-08
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Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
GA	5,773,978	6/30/98	Becker	324	430	
GB	5,789,899	8/4/98	van Phuoc et al.	320	30	
GC	5,793,359	8/11/98	Ushikubo	345	159	
GD	5,821,756	10/13/98	McShane et al.	324	430	
GE	5,831,435	11/3/98	Troy	324	426	
GF	5,872,443	2/16/99	Williamson	320	21	
GG	5,914,605	6/22/99	Bertness	324	430	
GH	5,945,829	8/31/99	Bertness	324	430	
GI	3,356,936	12/5/67	Smith	324	29.5	
GJ	5,488,300	1/30/96	Jamieson	324	432	
GK	6,002,238	12/14/99	Champlin	320	134	
GL	6,037,777	3/14/00	Champlin	324	430	
GM	6,051,976	4/18/00	Bertness	324	426	
GN	6,081,098	6/27/00	Bertness et al.	320	134	
GO	6,091,245	7/18/00	Bertness	324	426	
GP	6,104,167	8/15/00	Bertness et al.	320	132	
GQ	6,137,269	10/24/00	Champlin	320	130	

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
GR	DE 29 26 716 B1	1/15/81	Germany	3	3	X
GS	0 022 450 A1	1/21/81	EPO	3	3	X

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

GT	"Performance of Dry Cells", by C. Hambuechen, Preprint of <u>Am. Electrochem. Soc.</u> , April 18-20, 1912, paper No. 19, pgs. 1-5.
GU	"A Bridge for Measuring Storage Battery Resistance", by E. Willihncanz, <u>The Electrochemical Society</u> , preprint 79-20, April 1941, pgs. 253-258.

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GV	3,562,634	2/9/71	Latner	321	04	
GW	4,379,990	4/12/83	Sievers et al.	322	99	
GX	5,144,218	9/1/92	Bosscha	320	44	
GY	5,315,287	5/24/94	Sol	340	455	
GZ	5,469,043	11/21/95	Cherng et al.	320	81	
HA	5,546,317	8/13/96	Andrieu	364	481	
HB	5,583,416	12/10/96	Klang	320	22	
HC	5,589,757	12/31/96	Klang	320	22	
HD	5,656,920	8/12/97	Cherng et al.	320	31	
HE	5,710,503	1/20/98	Sideris et al.	320	6	
HF	5,760,587	6/2/98	Harvey	324	434	
HG	5,808,469	9/15/98	Kopera	324	43.4	
HH	6,008,652	12/28/99	Theofanopoulos et al.	324	434	
HI	6,009,369	12/28/99	Boisvert et al.	701	99	
HJ	6,031,354	2/29/00	Wiley et al.	320	116	
HK	6,037,751	3/14/00	Klang	320	160	
HL	6,072,299	6/6/00	Kurie et al.	320	112	
HM	6,094,033	7/25/00	Ding et al.	320	132	
HN	6,163,156	12/19/00	Bertness	324	426	
HO	6,172,483	1/9/01	Champlin	320	134	
HP	6,172,505	1/9/01	Bertness	324	430	

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
HQ	2 749 397	12/5/97	France			X
HR	59215674	12/5/84	Japan			Abstract Only

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

HS	
EXAMINER:	DATE CONSIDERED: 5-21-02

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HT	3,989,544	11/2/76	Santo	429	68	
HU	4,745,349	5/17/88	Palanisamy et al.	320	22	
HV	4,876,495	10/24/89	Palanisamy et al.	320	18	
HW	4,937,528	6/26/90	Palanisamy	324	430	
HX	4,968,942	11/6/90	Palanisamy	324	430	
HY	5,179,335	1/12/93	Nor	320	21	
HZ	5,266,880	11/30/93	Newland	320	14	
IA	5,451,881	9/19/95	Finger	324	433	
IB	5,705,929	1/6/98	Caravello et al.	324	410	
IC	5,717,937	2/10/98	Fritz	395	750.01	
ID	5,862,515	1/19/99	Kobayashi et al.	702	63	
IE	5,895,440	4/20/99	Proctor et al.	702	61	
IF	5,929,609	7/27/99	Joy et al.	322	25	
IG	6,072,300	6/6/00	Tsuji	320	116	
IH	4,659,977	4/21/87	Kissel et al.	320	64	
II	4,913,116	4/3/90	Katogi et al.	123	425	
IJ	5,160,881	11/3/92	Schramm et al.	322	7	
IK	5,338,515	8/16/94	Dalla Betta et al.	422	95	
IL	5,537,967	7/23/96	Tashiro et al.	123	792.1	
IM	5,548,273	8/20/96	Nicol et al.	340	439	
IN	5,747,909	5/5/98	Syverson et al.	310	156	

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	Document No.	Date	Country	Class	Sub Class	Translation Yes No
IO	62-180284	8/7/87	Japan			Abstract
IP	7-128414	5/19/95	Japan			Abstract

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

IO	
EXAMINER:	DATE CONSIDERED: 5-21-04

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FORM PTO-1449	Atty. Docket No.: C382.12-0097	Serial No.:
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	Applicant:	
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	Filing Date	Group Art:
	HEREWITH	

U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
IR	5,895,440	4/20/99	Proctor et al.	702	83	
IS	6,114,834	9/5/00	Parise	320	109	
IT	6,150,793	11/21/00	Lesesky et al.	320	104	
IU	3,876,931	4/8/75	Godshalk	324	29.5	
IV	5,347,163	9/13/94	Yoshimura	307	65	
IW	5,939,861	8/17/99	Joko et al.			
IX	5,339,018	8/16/94	Brokaw	320	35	
IY	5,412,323	5/2/95	Kato et al.	324	429	
IZ	5,426,416	6/20/95	Jefferies et al.	340	664	
JA	5,825,174	10/20/98	Parker	324	106	
JB	5,939,855	8/17/99	Proctor et al.	320	104	
JC	5,254,952	10/19/93	Salley et al.	324	429	
JD	4,217,645	8/12/80	Barry et al.	364	483	
JE	4,633,418	12/30/86	Bishop	364	554	
JF	5,321,626	6/14/94	Palladino	364	483	
JG	5,969,625	10/19/99	Russo	340	636	
JH	6,222,369	4/24/01	Champlin	324	430	
JI	6,225,808	5/1/01	Varghese et al.	324	426	
JJ	6,249,124	6/19/01	Bertness	324	426	
JK	6,259,254	7/10/01	Klang	324	427	
JL	6,262,563	7/17/01	Champlin	320	134	
JM	6,294,896	9/25/01	Champlin	320	134	
JN	6,294,897	9/25/01	Champlin	320	153	

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
JO	4-8636	1/13/92	Japan	?	?	X (Abstract)
JP	53027776	2/5/88	Japan	?	?	Abstract Only

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5-21-02

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FORM PTO-1449	Atty. Docket No.: C382.12-0097	Serial No.:
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	Applicant:	
	Kevin I. Bertness	
	Filing Date	Group Art:
	HEREWITH	

U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
JQ	4,379,989	4/12/83	Kurz et al.	320	25	
JR	4,680,528	7/14/87	Mikami et al.	320	32	
JS	5,633,985	5/27/97	Severson et al.	395	2.76	
JT	5,739,667	4/14/98	Matsuda et al.	320	5	
JU	4,024,953	5/1997	Nailor, III	206	344	
JV	6,250,973	6/2001	Lowery et al.	439	763	
JW	6,254,438	7/2001	Gaunt	439	755	
JX						
JY						
JZ						
KA						
KB						
KC						
KD						
KE						
KF						

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
KG						
KH						

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

KI	National Semiconductor Corporation, "High Q Notch Filter", 3/69, Linear Brief 5, March 1969.
KJ	Burr-Brown Corporation, "Design A 60 Hz Notch Filter with the UAF42", 1/94, AB-071, 1994.
KK	National Semiconductor Corporation, "LMP90-4 th -Order Elliptic Notch Filter", 12/94, RRD-B30M175, December 1994.

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